

REMARKS

The present application was filed on September 12, 2003 with claims 1 through 6. Claims 1 through 6 are presently pending in the above-identified patent application. Claims 1, 3, 5 and 6 are proposed to be amended herein.

In the Office Action, the Examiner rejected claims 1-6 under 35 U.S.C. §112, first paragraph, as failing to comply with the enablement requirement.

Section 112 Rejections

Claims 1-6 were rejected under 35 U.S.C. §112, first paragraph, as failing to comply with the enablement requirement. In particular, the Examiner asserts that there is no support in the disclosure for “continuously monitoring a guard period of each received OFDM frame for predefined inter-leaver synchronizing pattern at periodic frame intervals.”

Applicants note that the present disclosure teaches that:

According to another aspect of the invention, a receiver can detect when synchronization is lost, and detect and correct a false synchronization. Once a predefined synchronization condition is satisfied (i.e., a unique positive or negative pattern is established using the guard periods), a synchronization (SYNCH) state is entered. While in the synchronization state, each received frame is monitored for the synchronizing pattern to ensure that the receiver remains in the SYNCH state.
(Page 3, lines 21-26; emphasis added.)

According to a further feature of the present invention, discussed further below in conjunction with FIG. 7, a receiver can detect when synchronization is lost, and detect and correct a false synchronization. Initially, a receiver will monitor the incoming data stream to determine if a synchronization condition is satisfied. Once the synchronization condition is satisfied, a synchronization state is entered. While in the synchronization state, each received frame is monitored for the synchronizing pattern to ensure that the receiver remains in the SYNCH state. If synchronization remains correct, the next synchronization pattern should appear at the periodic OFDM frame interval (every 414 frames). If the pattern is not detected at the expected point, synchronization is at least temporarily lost. After a temporary loss of synchronization, if the synchronization pattern is detected at the expected position, the temporary loss of synchronization condition is ignored, and the receiver returns to the synchronization state.
(Page 5, lines 18-28; emphasis added.)

(See, also, page 9, line 7, to page 11, line 2.) Thus, contrary to the Examiner's assertion, the present disclosure teaches "continuously monitoring a guard period of each received OFDM frame for predefined inter-leaver synchronizing pattern at periodic frame intervals." In any case, Applicants note that the independent claims have been amended to delete the word "continuously."

Applicants believe that the cited amendment addresses the Examiner's concerns and respectfully request that the section 112 rejection be withdrawn.

All of the pending claims following entry of the amendments, i.e., claims 1-6, are in condition for allowance and such favorable action is earnestly solicited.

If any outstanding issues remain, or if the Examiner has any further suggestions for expediting allowance of this application, the Examiner is invited to contact the undersigned at the telephone number indicated below.

The Examiner's attention to this matter is appreciated.

Respectfully submitted,



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